

COMPUTER SYSTEMS AND METHODS FOR CONSTRUCTING
BIOLOGICAL CLASSIFIERS AND USES THEREOF
ABSTRACT OF THE INVENTION

The present invention provides systems and method for constructing
5 classifiers that distinguish between trait subgroups using molecular marker data
from blood samples. The invention further encompasses the use of the classifiers
and combinations of molecular markers identified by the classifiers in a wide variety
of applications including: diagnosis; prognosis; prediction of disease, stage of
disease or disease risk; monitoring disease progression and/or regression;
10 monitoring disease reoccurrence and identifying risk of disease reoccurrence;
determining and/or predicting response to treatment and/or treatment outcomes;
monitoring and/or predicting treatment compliance or non compliance and the like.
The invention further provides a variety of selected molecular markers and a means
15 to identify combinations of the selected molecular markers useful for diagnosing
particular traits of interest.